

# RB-Rbs-100

## Dynamixel AX-12A Smart Serial Servo

### o Upgrade Information

#### 1. Easier and stable cable organization

Additional holes created for easier and stable cable organization.



#### 2. Second notch for zeroing added at the horn

Easier to verify zeroing with notch I (top) and notch II (bottom).



⚠ The notches, I top, in both products are still the same. Please keep in mind during assembly.

#### 3. Strengthened frame assembly at nut/bolt holes

The new design increases durability and reduces damaged rates.



#### 4. Nut assembly improvement

The horn and nuts have been fixed inside the horn to strengthen assembly.



## **INCLUDES**

- AX-12A : 1 set
- B01-HORN : 1 set (pre-equipped)
- FP04-F2 : 1 set
- FP04-F3 : 1 set
- BPF-WA/BU Set : 1 set
- 3P Cable 200 : 1 set
- Bolt PHS M2\*6 : 16 set
- Bolt BHS M3\*10 : 1 set
- N1 Nut M2 : 16 set

## **SPECIFICATIONS**

- Weight : 54.6g
- Dimension : 32mm x 50.1mm x 40mm
- Minimum Control Angle : 0.29° X 1,024
- Gear Ratio : 254 :1
- Holding Torque : 15kgf.cm (at 12V, 1.5A)
- No Load Speed : 59 RPM 12V
- Motor : Cored Motor
- Operating Mode :
  1. Actuator Mode (0° ~ 300°)
  2. Wheel Mode (Endless Turn)
- Operating Temperature : -5°C ~ +70°C
- Operating Voltage : 9V~12V (Recommended Voltage 11.1V)
- Maximum Currents : 900mA
- Standby Currents : 50mA
- Command Signal : Digital Packet
- Protocol Type : Half duplex Asynchronous Serial Communication (8bit, 1stop, No Parity)
- Link (Physical) : TTL Level Multi Drop (Daisy Chain Type Connector)
- ID : 254 ID (0~253)
- Communication Speed : 7843bps ~ 1 Mbps
- Feedback : Position, Temperature, Load, Input Voltage, etc
- Material : Engineering Plastic
- Position Sensor : Potentiometer

## **INITIAL SETTING (default)**

- ID : 1
- Baud rate : 1 Mbps
- Please change the setting of ID and baud rate depending on your operating environment.

## **COMPATIBLE PRODUCTS**

- Controller : CM-5, CM-510, CM-2+, CM-700
- Interface(I/F) : USB2Dynamixel
- Frame : Frames for Bioloids